



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF FORENSIC SCIENCE

CALIBRATION LABORATORY  
A Nationally Accredited Laboratory

737 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

### CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010416  
DATE CERTIFICATION METHOD PERFORMED: February 25, 2015  
DATE RECERTIFICATION DUE: August 24, 2015

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

#### Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L      0.150 ± 0.008 g/210 L  
0.080 ± 0.004 g/210 L      0.250 ± 0.008 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

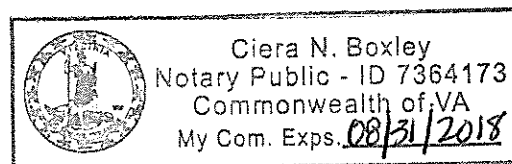
Timmy L. Neece, Jr.  
Forensic Scientist

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 2nd day of March, 2015 by Timmy L. Neece, Jr.

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018



**Department of Forensic Science**  
**Breath Alcohol Section**  
**Instrument Maintenance History**  
**2/25/2014 To 2/25/2015**

DBH  
TLN

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<b>Instrument Serial Number:</b>	<b>010416</b>	<b>As of 25-Feb-15</b>
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<b>Maintenance</b>	<b>Certification</b>	<b>Technician</b>	
<b>Date</b>	<b>Date</b>	<b>Initials</b>	<b>Remarks</b>
25-Feb-15	25-Feb-15	DBH (21250)	CERTIFIED.
05-Dec-14	28-Aug-14	SED (24178)	REPLACED UPS BACK-UP BATTERY.
28-Aug-14	28-Aug-14	DBH (21250)	CERTIFIED.
14-Mar-14	14-Mar-14	HMS (18910)	CERTIFIED

DBH  
TLN

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010416 Worksheet Start Date 2/25/2015  
Location DFS-Central  
Address 737 N 5th St Richmond VA 23219  
DFS Technician Donald Hall License No. 21250

☒ Laboratory

☐ On-Site

Site Specification: No detrimental environmental conditions exist. ☐

Instrument Barometer (mm HG) 754 Reference Barometer (mm HG) 755  
Reference Barometer(RB)Serial # 009109 RB Calibration Due 7/28/2015

## Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.304
0.300	0.298	0.289	0.306	Sample 2	0.304
Precision		sample min	sample max	Sample 3	0.304
0		0.304	0.304		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.100
0.100	0.099	0.096	0.102	Sample 2	0.100
Precision		sample min	sample max	Sample 3	0.100
0		0.100	0.100		

Dry gas standard Lot No. (with tank no.) AG407801-02

☐ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:



Notes:

Instrument Serial Number

010416

Certification Date

2/25/2015

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.251
0.250	0.248	0.240	0.255	Sample 2	0.251
Precision		sample min	sample max	Sample 3	0.250
0.001		0.250	0.251		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.151
0.150	0.149	0.144	0.153	Sample 2	0.151
Precision		sample min	sample max	Sample 3	0.151
0		0.151	0.151		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.079	0.076	0.082	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

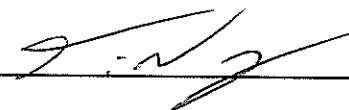
DFS Technician



Date

2/25/15

Issuing Analyst



Date

2/27/15

JPD

DBH  
TLW

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010416      Test Number: 1554  
Test Date: 02/25/2015      Test Time: 14:04 EST

Technician Initials: DBH

Dry Gas Target: 0.248

Lot Number: 16114250I4-01      Exp Date: 07/05/2016

Tank Pressure: 767 psi      Barometric Pressure: 754 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:04
BLK	0.000	14:05
CHK	0.251	14:06
BLK	0.000	14:07
CHK	0.251	14:08
BLK	0.000	14:10
CHK	0.250	14:10
BLK	0.000	14:12

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

DBH  
TLN

# **Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010416      Test Number: 1555  
Test Date: 02/25/2015      Test Time: 14:14 EST

Technician Initials: DBH

Dry Gas Target: 0.149

Lot Number: 07713150I3-02      Exp Date: 05/01/2015

Tank Pressure: 134 psi      Barometric Pressure: 754 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:15
BLK	0.000	14:16
CHK	0.151	14:16
BLK	0.000	14:18
CHK	0.151	14:19
BLK	0.000	14:20
CHK	0.151	14:21
BLK	0.000	14:22

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

DBH  
TLN

# Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010416      Test Number: 1556  
Test Date: 02/25/2015      Test Time: 14:24 EST

Technician Initials: DBH

Dry Gas Target: 0.079

Lot Number: 34413080I2-02      Exp Date: 01/01/2016

Tank Pressure: 90 psi      Barometric Pressure: 754 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:25
BLK	0.000	14:25
CHK	0.080	14:26
BLK	0.000	14:27
CHK	0.080	14:28
BLK	0.000	14:29
CHK	0.080	14:30
BLK	0.000	14:31

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

DBH  
TLN

# **Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010416      Test Number: 1557  
Test Date: 02/25/2015      Test Time: 14:38 EST

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 07713020I1-03      Exp Date: 05/01/2015

Tank Pressure: 232 psi      Barometric Pressure: 754 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:38
BLK	0.000	14:39
CHK	0.019	14:40
BLK	0.000	14:41
CHK	0.019	14:42
BLK	0.000	14:43
CHK	0.019	14:44
BLK	0.000	14:45

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success



DBH  
TLN

# **Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010416      Test Number: 1558

Test Date: 02/25/2015      Test Time: 14:48 EST

Dry Gas Target: 0.298

Lot Number: AG428003-08      Exp Date: 10/07/2016

Tank Pressure: 512 psi      Barometric Pressure: 754 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:48
CHK	0.304	14:49
BLK	0.000	14:51
CHK	0.304	14:52
BLK	0.000	14:54
CHK	0.304	14:55

Test Status: *Success*

Calibration CRC: F50C2EF1

DBH  
TLW

# **Intox EC/IR-II: Accuracy Check**

## *Department of Forensic Science*

Serial Number: 010416      Test Number: 1559  
Test Date: 02/25/2015      Test Time: 14:59 EST  
Dry Gas Target: 0.099  
Lot Number: A6407801-02      Exp Date: 03/19/2016  
Tank Pressure: 75 psi      Barometric Pressure: 754 mmHg  
System Check: Passed

Test	g/210L	Time
BLK	0.000	15:00
CHK	0.100	15:01
BLK	0.000	15:02
CHK	0.100	15:03
BLK	0.000	15:04
CHK	0.100	15:05

Test Status: Success

Calibration CRC: F50C2EF1

DBH  
TLN

INSTRUMENT, TEST,

DFS

HALL, DONALD, B

DFS Central Lab

21250

10/01/2016

02/25/2015

010416

02/25/2015

15:26 EST

0.00



# IntoxNet MIS Report

Report Generated 25 Feb 2015 at 15:35

DBH  
TLN

## Test Results

Instrument Serial Number 010416

Test # 001560 Subject Test

Test Location 1 Department of  
Test Date 25 Feb 2015

Test Location 2 Forensic Science  
Test Time 15:19  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name HALL  
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B

Card Serial Number 121250

License Number 21250

Effective Date 10/01/2014

Expiration Date 10/01/2016

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 25 Feb 2015 End Time 15:27

Result Time 15:26

Result Date 25 Feb 2015 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 15:19

Data Type BLK

Sample Value 0.000

Sample Time 15:20

Data Type CHK

Sample Value 0.100

Sample Time 15:21

Data Type BLK

Sample Value 0.000

Sample Time 15:22

Data Type SUBJ

Sample Value 0.000

Sample Time 15:23

Data Type BLK

Sample Value 0.000

Sample Time 15:24

Data Type SUBJ

Sample Value 0.000

Sample Time 15:26

Data Type BLK

Sample Value 0.000

Sample Time 15:27

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG407801-02

Standard Expiration Date 03/19/2016

Tank Pressure 66

Barometric Pressure 754 mmHg

Blow Sample Number 1 Blow Duration 3.80 sec

Blow Volume 1960 cc End-of-Blow Time 15:23

Blow Sample Number 2 Blow Duration 3.96 sec

Blow Volume 2138 cc End-of-Blow Time 15:26

Tamper Evident Stamp 1f7b1dcd

Test Status Code 0

Test Status Success